

**Notice of Allowability**

Application No.

09/903,835

Examiner

Joshua A Lohn

Applicant(s)

RAUSCHER, TOMLINSON G.

Art Unit

2114

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/15/2004.
2. ☒ The allowed claim(s) is/are 1-27.
3. ☒ The drawings filed on 12 July 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**SCOTT BADERMAN**  
**PRIMARY EXAMINER**

### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Claims 1-13 are allowable for the inclusion of the limitations, when taken within the context of all the limitations of the claims, of "each controller having a backplane component electrically connected to the electronic components of the controller, the backplane of each controller a component of only one controller, each chassis of direct access storage devices having a backplane component electrically connected to each of the direct access storage devices by a connector, and the backplane of each channel of direct access storage devices a component of only one channel of direct access storage devices". Claim 14 is allowable for the inclusion of the limitations, when taken within the context of all the limitations of the claims, of "each controller having a backplane component electrically connected to the electronic components of the controller... a separate cable attaching each disk in a channel to a controller, a first port of each disk electrically connected to the first controller, and a second port of each disk electrically connected to the second controller, wherein the backplane of each controller is a component of only one controller, and the backplane of each channel of disks is a component of only one channel of disks." Claim 15 is allowable for the inclusion of the limitations, when taken within the context of all the limitations of the claims, of "a greater than one controller modules, each controller module comprising a controller, a backplane, a power supply, and a cooling system, and a multiplicity of direct access storage device modules, each direct access storage device module comprising a multiplicity of direct access storage devices, a backplane, a power supply, and a cooling system, each controller module electrically connected by a connector module to each direct access storage device module." Claims 16-27 are allowable for the inclusion of the

Art Unit: 2114

limitations, when taken within the context of all the limitations of the claims, of "greater than one controller, each controller mounted on a controller chassis, each controller chassis having only one controller mounted thereon, a multiplicity of direct access storage devices... the direct access storage devices of each channel mounted on one or more chassis, and each controller electrically connected to each direct access storage device of each channel by a connector."


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua A Lohn whose telephone number is (571) 272-3661. The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAL

  
SCOTT BADERMAN  
PRIMARY EXAMINER